

Title (en)

HOUSEHOLD APPLIANCE WITH A FAN AND A FLOW DUCT

Title (de)

HAUSHALTSGERÄT MIT EINEM GEBLÄSE UND EINEM STRÖMUNGSKANAL

Title (fr)

APPAREIL ÉLECTROMÉNAGER DOTÉ D'UN VENTILATEUR ET D'UN CANAL D'ÉCOULEMENT

Publication

EP 4018898 B1 20230614 (DE)

Application

EP 21214645 A 20211215

Priority

DE 102020134579 A 20201222

Abstract (en)

[origin: US2022192446A1] A household appliance has a device housing, a blower arranged in the device housing, an outlet opening formed in the flow direction behind the blower in the device housing, and a flow channel. Soundwaves are generated by the blower, and produce resonances characterized by standing waves, which form between opposing inner walls of the flow channel. A sound reducing wall is positioned in the flow channel, the wall plane of which is oriented parallel to a primary flow direction of the air flow guided in the flow channel. The sound reducing wall is positioned in the flow channel so that a maximum for a fast amplitude of a sound particle velocity of the air flow guided in the flow channel lies in the wall plane of the sound reducing wall. The soundwaves form while interspersing the sound reducing wall between the opposing inner walls of the flow channel.

IPC 8 full level

A47L 9/00 (2006.01)

CPC (source: CN EP US)

A47L 5/24 (2013.01 - US); **A47L 9/0081** (2013.01 - CN EP US); **G10K 11/162** (2013.01 - US); **G10K 11/172** (2013.01 - US)

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